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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,382	12/11/2003	Ashok Bhatia	030123	9779

23696 7590 02/02/2005

Qualcomm Incorporated
Patents Department
5775 Morehouse Drive
San Diego, CA 92121-1714

EXAMINER

ISSING, GREGORY C

ART UNIT	PAPER NUMBER
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3662

DATE MAILED: 02/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/734,382

Applicant(s)

BHATIA ET AL.

Examiner

Gregory C. Issing

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>20040630</u> . | 6) <input type="checkbox"/> Other: ____. |

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1. Claims 2 and 3 are objected to because of the following informalities: "turning" appears should be "tuning". Appropriate correction is required.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krasner (6,150,980) in view of Storm et al (6,016,312).

4. Krasner discloses the method substantially as claimed including an integrated communication device and GPS receiver. The communication device may communicate data and voice (col. 7, lines 1-15) as well as may be in the form of a pager (col. 7, lines 35-41), and further it is shown that the cellular communications system may be applied to any of the various types of cellular communications including cellular telephones, PCS, SMR, one-way and two-way pager systems, RAM, ARDIS and wireless packet data systems (col. 8, lines 10-38). Krasner clearly describes the determination of local time from a synchronized event, such as a message frame or multi-frame, or from time pulses within a communication signal received by the communication receiver (col. 9-13). Additionally, Krasner discloses the acquisition and tracking of a reference signal in the communication in order to generate a local oscillator signal which is used to acquire GPS signals in the GPS receiver (col. 18, lines 1-12). Krasner does not specifically address the use of a slotted paging system. Storm et al teach the use of a wireless slotted paging system for use with a battery-operated mobile radio such as a cellular radiotelephone in order to reduce power consumption. Storm et al further show the particulars of operation thereof. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Krasner by incorporating the use of its integrated GPS/cellular receiver in a wireless slotted paging

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system in order to provide power savings to the battery-operated mobile device in light of the fact that Krasner suggests any of various communication system including paging systems as well as a mobile device and Storm et al teach the savings/reduction in power of the use of a slotted paging system.

5. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naruse (6,369,751) in view of Storm et al.

6. Naruse disclose a combined GPS receiving unit and a CDMA receiving unit wherein the CDMA receiving unit is synchronized for operation using a received CDMA signal from a base station and wherein subsequently the synchronization signal is forwarded to the GPS receiving unit in order to acquire the GPS signals. Naruse does not specify the use of a slotted paging system, but merely general CDMA cellular communication. Storm et al teach the use of a wireless slotted paging system for use with a battery-operated mobile radio such as a cellular radiotelephone using CDMA in order to reduce power consumption. Storm et al further show the particulars of operation thereof. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Naruse by incorporating the use of its integrated GPS/cellular receiver in a wireless slotted paging system in order to provide power savings to the battery-operated mobile device in light of the fact that Naruse suggests a wireless CDMA communication system as well as a mobile device and Storm et al teach the savings/reduction in power of the use of a slotted paging system.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Krasner (6,421,002)discloses an integrated communication receiver and GPS receiver wherein the communication receiver receives a communication signal and acquires and tracks the signal to generate a synchronization signal. The synchronization signal is forwarded to the GPS receiver for subsequently acquiring GPS signals and ultimately determining position. This reference shares much in common with the previously cited Krasner patent.

Tawadrous et al (US 2003/0214432) disclose a method for frequency management in an integrated communication and navigation unit wherein the communication receiver tracks a received wireless

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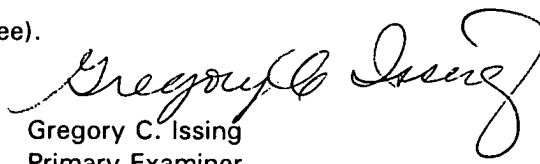
signal for providing synchronization therein (108, 102, 110) and subsequent thereto the navigation receiver, the GPS receiver, receives the synchronization signal in the form of the frequency clock signal which is used to acquire GPS satellites and ultimately determine position.

Gilhousen et al (5,103,459) disclose background information regarding CDMA cellular telephone systems including the transmission of a pilot carrier signal which signal is used by a mobile device to obtain system synchronization and to provide robust time, frequency and phase tracking. Additionally, each site transmits spread spectrums modulated information, such as cell-site identification, system timing, mobile paging information and other control signals. The cellular telephone also communicates voice information in the normal fashion.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory C. Issing whose telephone number is 703-306-4156. The examiner can normally be reached on Monday - Thursday 6:00 AM- 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Gregory C. Issing
Primary Examiner
Art Unit 3662

gci